



SUBSTITUTE SPECIFICATION
CLEAN VERSION

TO WHOM IT MAY CONCERN:

5

BE IT KNOWN that James B. Gillen and Sherry S. Gillen are citizens of the United States and are residents of Lake Bluff, Illinois, U.S.A. and have invented new and useful improvements in a

PROTECTIVE BODY VEST

10 and do hereby declare that the following is a full, clear and exact description, reference being had to the accompanying drawings and to the numerals of reference marked thereon, that form a part of this specification.

BACKGROUND OF THE INVENTION

PRIOR HISTORY

This is a Continuation-in-Part Application of U.S. Patent Application No.
5 10/118,676, filed April 9, 2002, which application is a Continuation-in-Part Application
of U.S. Patent Application No. 10/000,246.

FIELD OF THE INVENTION

The present invention relates to protective body vests/jerseys for protecting against
10 impact upon a human torso when worn by an athlete during sporting activities. More
specifically, the present invention is primarily intended to provide a baseball/softball player
added protection from injuries resulting from being hit by a pitched, thrown, hit or tipped
ball, being tagged with a ball or colliding with another player. The present invention can
also be utilized by athletes engaged in other sporting activities, such as, but not limited to,
15 inline skating, skateboarding, water sports, and touch football, to provide added protection
from injuries resulting from falling and/or colliding with another person, player, or matter.

Description of the Prior Art

In recent years, many vests have been created for the purpose of providing
protection to the torso of an athlete engaged in sporting activities. These vests, however,
20 only afforded protection to limited areas of the body. In particular, U.S. Patent No.
5,669,080, issued to Culton, discloses a protective apparatus against baseball pitching
injuries, which is essentially a partial vest contoured to protect the chest, shoulders, and
upper arms of the athlete. Designed primarily for use by baseball/softball umpires, the

Protective Apparatus is not conducive to batting, running, throwing, fielding or sliding motions due to the combination of adjustable flexible and non-flexible arm and shoulder straps which secure the apparatus snugly to the arms, shoulders and neck of the wearer, prohibiting the full and easy movement of the arms and neck of an athlete wearing the

5 apparatus, and the protective covering over the upper arms which the apparatus provides. In addition, the degree of protection afforded by the Protective Apparatus from a pitched, hit, thrown or tipped ball, a fall, or a collision is limited since 1) there is no protection for the lateral regions and the back of the torso and 2) the amount of protective material in the apparatus is limited since it is designed to fit under the shirt of an umpire. Designed
10 primarily for use by baseball/softball umpires who would wear the apparatus for an extended period of time (i.e., the duration of a baseball/softball game), the Protective Apparatus is not quickly and easily donned due to the number, location and operation (i.e., any required adjustment for fit) of the securing straps and the fact that the wearer has to put on the vest over his/her head while placing one arm at a time through the arm straps. In
15 particular, to achieve the proper fit of the shoulder strap, the wearer would have to reach around his/her lower back with both hands for the most effective operation of the adjusting mechanism, which is located behind the wearer, unless he/she solicited the help of another person.

Moreover, U.S. Patent No. 4,668,202, issued to Scheurer et al., and U.S. Patent No.
20 5,328,398, issued to Aubrey, both disclose protective vests for flotation utilized in water sporting activities. These vests both have a reduced overall flexibility for other sporting activities due to the relative rigidity of the vest materials. Further, both of these water vests utilize an exposed center opening for the user to put on the vest, a deep V-neck design and a

plurality of securing belts fastened across the center opening. These water vests are primarily designed for flotation purposes and not for protection against impact from sporting activities. As such, these vests do not provide the necessary protection needed for the whole torso. Though the water vests provide some protection against the impact of the water, the combination of the center opening and deep V-neck design exposes the heart of the athlete to impact. Further, the body area below the center opening is unprotected, as the center opening is not covered by protective material. Additionally, the securing belts fastened across the center opening are uncovered, resulting in a possible “catch.” Finally, the back of these water vests does not protect the lower spine area of the body from impact forces. In particular, U.S. Patent No. 4,668,202 contains a rear opening to adjust the vest to the particular body size that leaves the back exposed to impact forces.

It is therefore highly advantageous to provide a protective vest/jersey that can provide protection from a multi-section, one-piece garment to the torso. In addition, it is advantageous to provide a protective vest/jersey that allows for the removal and insertion of protective padding relative to the wearer’s safety, comfort and athletic performance concerns. Further, it is advantageous to provide a protective vest/jersey wherein each shoulder portion comprises at least one fastening device or means therein for attaching or accommodating the attaching of a shoulder pad type object. Further yet, it is advantageous to provide a protective vest/jersey that comprises sleeves that incorporate protective padding. The present invention provides these and other advantages as is hereinafter explained.

SUMMARY OF THE INVENTION

According to our present invention we have provided a multi-section, one-piece garment for protecting against impact upon a human torso when worn by an athlete during sporting activities comprising a vest/jersey sized and shaped to be worn on the torso of an athlete having a multi-layered padding to protect the torso of the athlete. The vest/jersey, which is donned and removed in an over-the-head, pullover manner, is comprised generally of a shoulder portion, an anterior portion, a pair of lateral portions and a posterior portion. The multi-layered padding has a first, or outer layer, a second, or middle layer and a third, or inner layer, wherein the first and the third layers sandwich, or are joined at a seam to provide a shell for, the second layer, the second layer being formed from a padding material for protecting the torso against impact.

Each shoulder portion comprises at least one fastening device or means therein for attaching or accommodating the attaching of a shoulder pad type object.

At least one protective pad can be attached via at least one fastening device to, or inserted into at least one pocket which may be partitioned and attached via at least one fastening device or fastening means to the interior and/or exterior surface of the first, or outer layer of the multi-layer padding, or a layer or layers thereof, and/or the interior and/or exterior surface of the second, or middle layer of the multi-layered padding, or a layer or layers thereof, and/or the interior and/or exterior surface of the third, or inner layer of the multi-layered padding, or a layer or layers thereof, or in the seam where the first, or outer layer and the third, or inner layer of the multi-layered padding are joined to provide a shell for the second or middle layer, the anterior portion and sized and shaped

to provide protection from impact to the anterior portion, or a section or sections thereof, the protective pad being removable and insertable by the wearer, with access to the interior of the shell provided via either the slot or opening that allows for the removal or insertion of the second, or middle layer of the multi-layer padding from the vest/jersey, or
5 a separate slot or opening located on the interior or exterior surface of the shell, or in the seam where the first and third layers of the multi-layer padding are joined to form the shell, which may or may not be secured in a closed position by a fastening device or devices.

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15 layer of the multi-layered padding, or a layer or layers thereof, or in the seam where the first, or outer layer and the third, or inner layer of the multi-layered padding are joined to provide a shell for the second or middle layer, the posterior portion and sized and shaped to provide protection from impact to the posterior portion, or a section or sections thereof, the protective pad being removable and insertable by the wearer, with access to the
20 interior of the shell provided via either the slot or opening that allows for the removal or insertion of the second, or middle layer of the multi-layer padding from the vest/jersey, or a separate slot or opening located on the interior or exterior surface of the shell, or in the seam where the first and third layers of the multi-layer padding are joined to form the

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5 outer layer of the multi-layer padding, or a layer or layers thereof, and/or the interior and/or exterior surface of the second, or middle layer of the multi-layered padding, or a layer or layers thereof, and/or the interior and/or exterior surface of the third, or inner layer of the multi-layered padding, or a layer or layers thereof, or in the seam where the
10 first, or outer layer and the third, or inner layer of the multi-layered padding are joined to provide a shell for the second or middle layer, at least one lateral portion and sized and shaped to provide protection from impact to the lateral portion, or a section or sections thereof, the protective pad being removable and insertable by the wearer, with access to the interior of the shell provided via either the slot or opening that allows for the removal
15 or insertion of the second, or middle layer of the multi-layer padding from the vest/jersey, or a separate slot or opening located on the interior or exterior surface of the shell, or in the seam where the first and third layers of the multi-layer padding are joined to form the shell, which may or may not be secured in a closed position by a fastening device or devices.

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and/or exterior surface of the second, or middle layer of the multi-layered padding, or a layer or layers thereof, and/or the interior and/or exterior surface of the third, or inner layer of the multi-layered padding, or a layer or layers thereof, or in the seam where the first, or outer layer and the third, or inner layer of the multi-layered padding are joined to provide a shell for the second or middle layer, at least one shoulder portion and sized and shaped to provide protection from impact to the shoulder portion, or a section or sections thereof, the protective pad being removable and insertable by the wearer, with access to the interior of the shell provided via either the slot or opening that allows for the removal or insertion of the second, or middle layer of the multi-layer padding from the vest/jersey, or a separate slot or opening located on the interior or exterior surface of the shell, or in the seam where the first and third layers of the multi-layer padding are joined to form the shell, which may or may not be secured in a closed position by a fastening device or devices.

Each shoulder portion may have a sleeve attached which may or may not be removable. Each sleeve may have the lower portion of the sleeve being removable. Each sleeve may incorporate protective padding to provide protection to at least one portion of the arm socket/shoulder joint area, the upper arm area, the middle arm or elbow area and/or the lower arm area that may or may not be removable.

In another embodiment, we have provided a multi-section, one-piece garment that is donned and removed in an over-the-head, pullover manner, for protecting against impact upon a human torso when worn by an athlete during sporting activities comprising a vest/jersey sized and shaped to be worn on a torso of an athlete including an anterior portion,

a posterior portion, a pair of lateral portions and a shoulder portion, the vest/jersey having a multi-layered padding in the anterior portion and/or the shoulder portion and/or the lateral portions and/or the posterior portion of the vest/jersey, the shoulder portion and/or the lateral portions and/or the posterior portion of the vest/jersey being comprised primarily, if
5 not totally of material that allows for the cooling of the underlying torso. The multi-layered padding has a first, or outer layer, a second, or middle layer and a third, or inner layer wherein the first layer and the third layer sandwich, or are joined at a seam to provide a shell for, the second layer, the second layer being formed from a padding material.

10 Each shoulder portion comprises at least one fastening device or means therein for attaching or accommodating the attaching of a shoulder pad type object.

At least one protective pad can be attached via at least one fastening device to, or inserted into at least one pocket which may be partitioned and attached via at least one fastening device or fastening means to the interior and/or exterior surface of the first, or
15 outer layer of the multi-layer padding, or a layer or layers thereof, and/or the interior and/or exterior surface of the second, or middle layer of the multi-layered padding, or a layer or layers thereof, and/or the interior and/or exterior surface of the third, or inner layer of the multi-layered padding, or a layer or layers thereof, or in the seam where the first, or outer layer and the third, or inner layer of the multi-layered padding are joined to
20 provide a shell for the second or middle layer, the anterior portion and sized and shaped to provide protection from impact to the anterior portion, or a section or sections thereof, the protective pad being removable and insertable by the wearer, with access to the interior of the shell provided via either the slot or opening that allows for the removal or

insertion of the second, or middle layer of the multi-layer padding from the vest/jersey, or a separate slot or opening located on the interior or exterior surface of the shell, or in the seam where the first and third layers of the multi-layer padding are joined to form the shell, which may or may not be secured in a closed position by a fastening device or
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15 to provide protection from impact to the posterior portion, or a section or sections thereof, the protective pad being removable and insertable by the wearer, with access to the interior of the shell provided via either the slot or opening that allows for the removal or insertion of the second, or middle layer of the multi-layer padding from the vest/jersey, or a separate slot or opening located on the interior or exterior surface of the shell, or in the
20 seam where the first and third layers of the multi-layer padding are joined to form the shell, which may or may not be secured in a closed position by a fastening device or devices.

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layer of the multi-layered padding, or a layer or layers thereof, or in the seam where the first, or outer layer and the third, or inner layer of the multi-layered padding are joined to provide a shell for the second or middle layer, at least one shoulder portion and sized and shaped to provide protection from impact to the shoulder portion, or a section or sections thereof, the protective pad being removable and insertable by the wearer, with access to the interior of the shell provided via either the slot or opening that allows for the removal or insertion of the second, or middle layer of the multi-layer padding from the vest/jersey, or a separate slot or opening located on the interior or exterior surface of the shell, or in the seam where the first and third layers of the multi-layer padding are joined to form the shell, which may or may not be secured in a closed position by a fastening device or devices.

Each shoulder portion may have a sleeve attached which may or may not be removable. Each sleeve may have the lower portion of the sleeve being removable. Each sleeve may incorporate protective padding to provide protection to at least one portion of the arm socket/shoulder joint area, the upper arm area, the middle arm or elbow area and/or the lower arm area that may or may not be removable.

In another embodiment of the vest/jersey, we have provided a multi-section, one-piece garment for protecting against impact upon a human torso when worn by an athlete during sporting activities comprising a vest/jersey sized and shaped to be worn on a torso of an athlete including an anterior portion, a posterior portion, a pair of lateral portions, a shoulder portion and an offset opening or offset openings, the vest/jersey having a multi-layered padding in the anterior portion and the shoulder portion and/or the lateral portions

and/or the posterior portion of the vest/jersey, the posterior portion and/or the lateral portions and/or the shoulder portion of the vest/jersey being comprised primarily, if not totally of material that allows for the cooling of the underlying torso. The multi-layered padding has a first, or outer layer, a second, or middle layer and a third, or inner layer

5 wherein the first layer and the third layer sandwich, or are joined at a seam to provide a shell for, the second layer, the second layer being formed from a padding material. The offset opening or offset openings is/are off set from the medial line of a human torso to protect the heart against impact. The present invention further comprises a fastening device or devices to engage the vest/jersey when fastened to secure the vest/jersey about
10 the torso.

Each shoulder portion comprises at least one fastening device or means therein for attaching or accommodating the attaching of a shoulder pad type object.

At least one protective pad can be attached via at least one fastening device to, or inserted into at least one pocket which may be partitioned and attached via at least one
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20 first, or outer layer and the third, or inner layer of the multi-layered padding are joined to provide a shell for the second or middle layer, the anterior portion and sized and shaped to provide protection from impact to the anterior portion, or a section or sections thereof, the protective pad being removable and insertable by the wearer, with access to the

interior of the shell provided via either the slot or opening that allows for the removal or insertion of the second, or middle layer of the multi-layer padding from the vest/jersey, or a separate slot or opening located on the interior or exterior surface of the shell, or in the seam where the first and third layers of the multi-layer padding are joined to form the
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15 provide a shell for the second or middle layer, the posterior portion and sized and shaped to provide protection from impact to the posterior portion, or a section or sections thereof, the protective pad being removable and insertable by the wearer, with access to the interior of the shell provided via either the slot or opening that allows for the removal or insertion of the second, or middle layer of the multi-layer padding from the vest/jersey, or
20 a separate slot or opening located on the interior or exterior surface of the shell, or in the seam where the first and third layers of the multi-layer padding are joined to form the shell, which may or may not be secured in a closed position by a fastening device or devices.

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Each shoulder portion may have a sleeve attached which may or may not be removable. Each sleeve may have the lower portion of the sleeve being removable. Each sleeve may incorporate protective padding to provide protection to at least one portion of the arm socket/shoulder joint area, the upper arm area, the middle arm or elbow area and/or the lower arm area that may or may not be removable.

In another embodiment of the vest/jersey, we have provided a multi-section, one-piece garment for protecting against impact upon a human torso when worn by an athlete during sporting activities comprising a vest/jersey sized and shaped to be worn on the torso of an athlete having a multi-layered padding to protect the torso of the athlete. The vest/jersey is comprised generally of a shoulder portion, an anterior portion, a pair of lateral portions, a posterior portion and an offset opening or offset openings. The multi-layered

padding has a first, or outer layer, a second, or middle layer and a third, or inner layer, wherein the first and the third layers sandwich, or are joined at a seam to provide a shell for, the second layer, the second layer being formed from a padding material for protecting the torso against impact. The offset opening or offset openings is/are off set
5 from the medial line of a human torso to protect the heart against impact. The present invention further comprises a fastening device or devices to engage the vest/jersey when fastened to secure the vest/jersey about the torso.

Each shoulder portion comprises at least one fastening device or means therein for attaching or accommodating the attaching of a shoulder pad type object.

10 At least one protective pad can be attached via at least one fastening device to, or inserted into at least one pocket which may be partitioned and attached via at least one fastening device or fastening means to the interior and/or exterior surface of the first, or outer layer of the multi-layer padding, or a layer or layers thereof, and/or the interior and/or exterior surface of the second, or middle layer of the multi-layered padding, or a
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20 the protective pad being removable and insertable by the wearer, with access to the interior of the shell provided via either the slot or opening that allows for the removal or insertion of the second, or middle layer of the multi-layer padding from the vest/jersey, or a separate slot or opening located on the interior or exterior surface of the shell, or in the

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10 layer of the multi-layered padding, or a layer or layers thereof, or in the seam where the
first, or outer layer and the third, or inner layer of the multi-layered padding are joined to
provide a shell for the second or middle layer, the posterior portion and sized and shaped
to provide protection from impact to the posterior portion, or a section or sections thereof,
the protective pad being removable and insertable by the wearer, with access to the
15 interior of the shell provided via either the slot or opening that allows for the removal or
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a separate slot or opening located on the interior or exterior surface of the shell, or in the
seam where the first and third layers of the multi-layer padding are joined to form the
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shaped to provide protection from impact to the shoulder portion, or a section or sections thereof, the protective pad being removable and insertable by the wearer, with access to the interior of the shell provided via either the slot or opening that allows for the removal or insertion of the second, or middle layer of the multi-layer padding from the vest/jersey, or a separate slot or opening located on the interior or exterior surface of the shell, or in the seam where the first and third layers of the multi-layer padding are joined to form the shell, which may or may not be secured in a closed position by a fastening device or devices.

Each shoulder portion may have a sleeve attached which may or may not be removable. Each sleeve may have the lower portion of the sleeve being removable. Each sleeve may incorporate protective padding to provide protection to at least one portion of the arm socket/shoulder joint area, the upper arm area, the middle arm or elbow area and/or the lower arm area that may or may not be removable.

DESCRIPTION OF THE DRAWINGS

Other features of my invention will become more evident from a consideration of the detailed description of my patent drawings, as follows:

Figure 1 is a front view of the preferred embodiment of the vest that has an offset opening with an overlap, a pocket with a removable/insertable protective pad to protect the chest area, short sleeves with protective padding to protect the arm socket/shoulder joint and upper arm areas and belt-loop-type loops in the shoulder areas belt-loop-type loops in the shoulder areas for attaching or accommodating the attaching of a shoulder pad type object.

Figure 2 is a front/side view of an alternative embodiment of the vest that has an offset opening offset more to the side than the offset opening in Figure 1, and, as such, is donned/removed in an over-the-head, pull-over manner, a pocket with a removable/insertable protective pad to protect the chest area and belt-loop-type loops in the shoulder areas for attaching or accommodating the attaching of a shoulder pad type object. A shoulder pad type object is depicted to demonstrate one method by which a shoulder pad type object could be attached to the shoulder area: through the use of a separate strap with exposed hook or loop material that is looped through the belt-loop-type loops in the shoulder area and fastens to itself so as to leave the hook (or loop) material exposed for use in fastening to loop (or hook) material on the shoulder pad type object.

Figure 3 is a front view of an alternative embodiment of the pullover version of the vest that has no offset opening, a pocket with a removable/insertable protective pad to protect the spleen area, epaulet-type loops or tunnels for attaching or accommodating the attaching of a shoulder pad type object and long sleeves with protective padding to protect the arm socket/shoulder joint, upper arm, the middle arm/elbow and lower arm areas.

Figure 4 is a back view of each of the embodiments of the vest depicted in Figures 1, 2 and 3, each of which can utilize the adjustable securing belts depicted, showing hook or loop material in the shoulder areas for attaching or accommodating the attaching of a shoulder pad type object and a partitioned pocket with removable/insertable protective pads to protect the upper back area.

DETAILED DESCRIPTION

Referring now to the drawings, the present invention comprises a multi-section,
5 one-piece garment 10 for protecting against impact upon a human torso when worn by an athlete during sporting activities comprising a vest/jersey 13 sized and shaped to be worn on the torso of an athlete having an anterior portion 22, a posterior portion 24, a pair of lateral portions 26 and a shoulder portion 28 and including an offset opening 30 and an overlap 32 in the anterior portion 22 and a tapered design 34 in the inferior-most region of the
10 posterior portion 24, as shown in Figures 1 and 4. Key features of the invention as shown in Figure 1 include a pocket 42 with a removable/insertable protective pad 43 to protect the chest area in the anterior portion 22, belt-loop-type loops 52 in the shoulder area 28 for attaching or accommodating the attaching of shoulder pad type objects and short sleeves 62 attached to the shoulder area 28 with protective padding 65, 66 to protect the
15 arm socket/shoulder joint and upper arm areas.

Another embodiment of the present invention comprises a multi-section, one-piece garment 11 for protecting against impact upon a human torso when worn by an athlete during sporting activities comprising a vest/jersey 14 donned/removed in a pull-over manner
20 sized and shaped to be worn on the torso of an athlete having an anterior portion 22, a posterior portion 24, a pair of lateral portions 26 and a shoulder portion 28 and including an offset opening 30 at the juncture of the anterior portion 22 and right-hand-side lateral portion 26, as shown in Figures 2 and 4. Key features of the invention as shown in Figure 2 include a pocket 44 with a removable/insertable protective pad 45 to protect the

chest area in the anterior portion 22 and belt-loop-type loops 52 in the shoulder area 28 for attaching or accommodating the attaching of shoulder pad type objects.

5 A shoulder pad type object 72 is depicted to demonstrate one method by which a shoulder pad type object 72 could be attached to the shoulder area 28: through the use of a separate strap 74 with exposed hook or loop material 76 that is looped through the belt-loop-type loops in the shoulder area 52 and fastens to itself so as to leave the hook (or loop) material exposed for use in fastening to loop (or hook) material on the shoulder pad type object 72.

10 Another embodiment of the present invention comprises a multi-section, one-piece garment 12 for protecting against impact upon a human torso when worn by an athlete during sporting activities comprising a vest/jersey 15 donned and removed in a pull-over manner sized and shaped to be worn on the torso of an athlete having an anterior portion 22, a posterior portion 24, a pair of lateral portions 26 and a shoulder portion 28 and
15 including a tapered design 34 in the inferior-most region of the posterior portion 24 and adjustable securing belts 82, as shown in Figures 3 and 4. Key features of the invention as shown in Figure 3 include a pocket 46 with a removable/insertable protective pad 47 to protect the spleen area in the anterior portion 22, epaulet-type loops or tunnels 54 in the shoulder area 28 for attaching or accommodating the attaching of shoulder pad type
20 objects and long sleeves 64 attached to the shoulder area 28 with protective padding 65, 66, 67 and 68 to protect the arm socket/shoulder joint, upper arm, middle arm/elbow and lower arm areas. Key features of the invention as shown in Figure 4 include hook (or loop) material 56 in the shoulder area 28 for attaching or accommodating the attaching of

a shoulder pad type object and a partitioned pocket 48 with removable/insertable protective pads 49 in the posterior portion 24 to protect the upper back area.

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